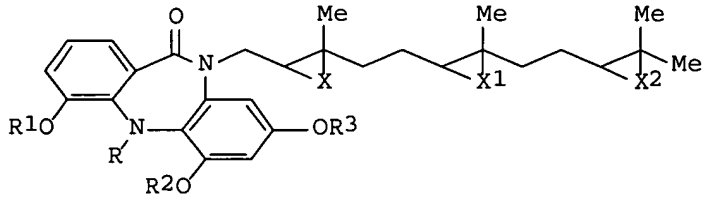
L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:431399 CAPLUS Full-text
DN 142:482166
TI Preparation of farnesyl dibenzodiazepinones, their production with microorganisms, and their use as antitumor, antibacterial, and antiinflammatory agents
IN Farnet, Chris M.; Dimitriadou, Violetta; Bachmann, Brian O.
PA Ecopia Biosciences, Inc., USA
SO U.S. Pat. Appl. Publ., 44 pp., Cont.-in-part of U.S. Ser. No. 762,107.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005107363	A1	20050519	US 2004-951436	20040927
	US 2005043297	A1	20050224	US 2004-762107	20040121
PRAI	US 2003-441126P	P	20030121		
	US 2003-492997P	P	20030807		
	US 2003-518286P	P	20031110		
	US 2004-762107	A2	20040121		

OS MARPAT 142:482166
GI



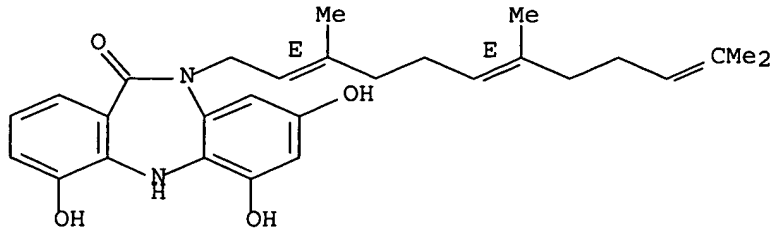
I

AB This invention relates to the prepn of farnesyl dibenzodiazepinone derivs., such as I [R = H, alkyl, alkenyl, aryl, heteroaryl; R1, R2, R3 = H, alkyl, alkenyl, aryl, heteroaryl, acyl; X, X1, X2 = H2, (OH)2, -O-, or forms (E)-double bond], to methods of their use inhibiting the growth of cancer cells and to methods of treating cancer using the farnesylated dibenzodiazepinones. Thus, farnesyl dibenzodiazepinone I [R = R1 = R2 = R3 = H, X = X1 = X2 forms (E)-double bond] (ECO 04601) was prepared via a fermentation process using Micromonosproa spp. and was subsequently epoxidized with m-chloroperbenzoic acid in THF to form corresponding mono-epoxides II [R = R1 = R2 = R3 = H, X = -O-, X1 = X2 forms (E)-double bond; X = X2 forms (E)-double bond, X1 = -O-; X = X1 forms (E)-double bond, X2 = -O-] with yields ranging from 15 to 25%. ECO 04601 was tested for anticancer activity against a variety of cancer cell lines.

IT **733035-26-2P**, ECO 04601
RL: BPN (Biosynthetic preparation); PAC (Pharmacological activity); PKT (Pharmacokinetics); PUR (Purification or recovery); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of farnesyl dibenzodiazepinones, their production with Micromonospora microorganisms, and their use as antitumor, antibacterial, and antiinflammatory agents)

RN 733035-26-2 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5,10-dihydro-4,6,8-trihydroxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

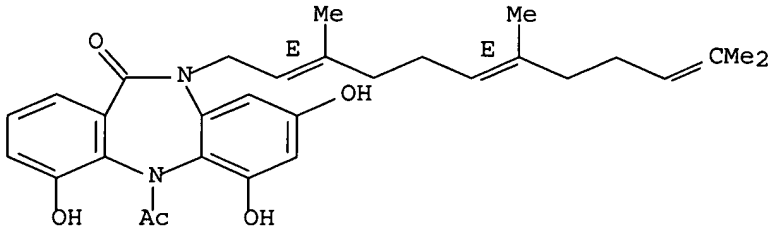
Double bond geometry as shown.



IT **733011-10-4P 733011-11-5P 733011-12-6P**
733011-32-0P 733011-33-1P 733011-39-7P
733011-41-1P
RL: BPN (Biosynthetic preparation); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of farnesyl dibenzodiazepinones, their production with Micromonospora microorganisms, and their use as antitumor, antibacterial, and antiinflammatory agents)

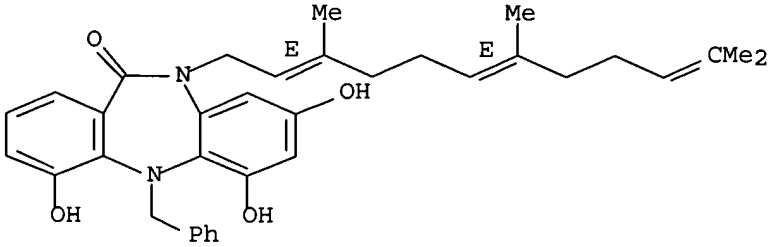
RN 733011-10-4 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-acetyl-5,10-dihydro-4,6,8-trihydroxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



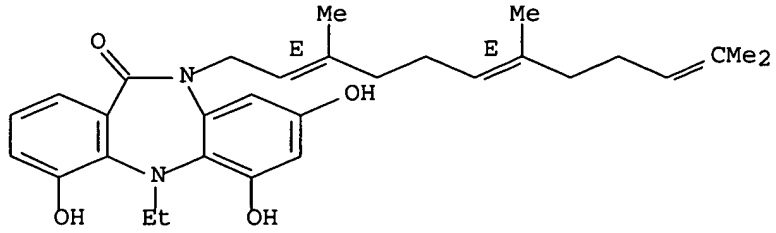
RN 733011-11-5 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5,10-dihydro-4,6,8-trihydroxy-5-(phenylmethyl)-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



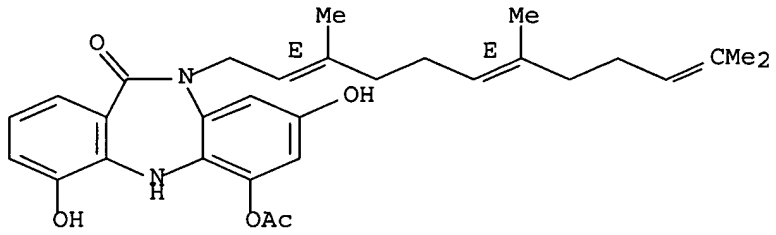
RN 733011-12-6 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-ethyl-5,10-dihydro-4,6,8-trihydroxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



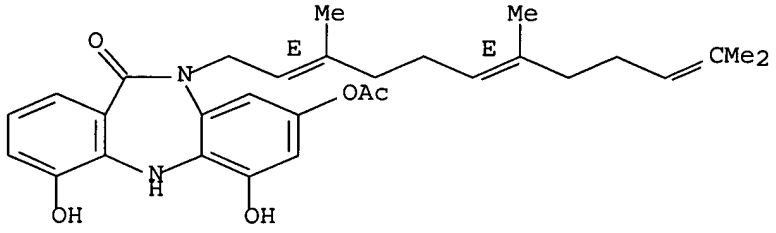
RN 733011-32-0 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 6-(acetyloxy)-5,10-dihydro-4,8-dihydroxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



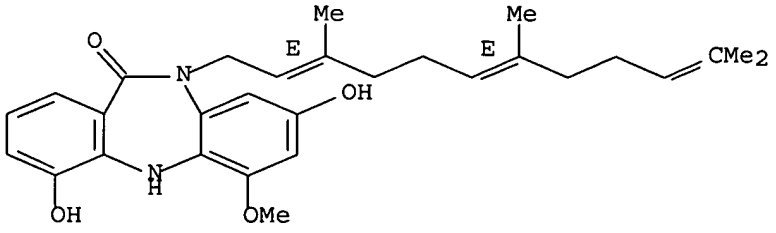
RN 733011-33-1 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 8-(acetyloxy)-5,10-dihydro-4,6-dihydroxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



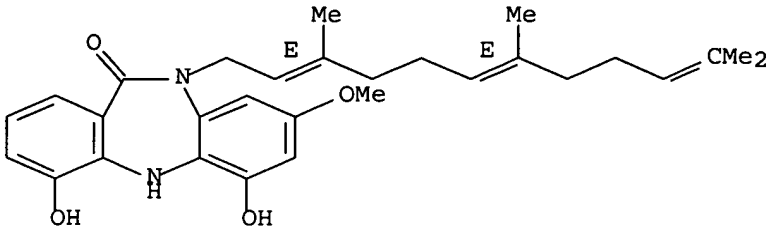
RN 733011-39-7 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5,10-dihydro-4,8-dihydroxy-6-methoxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 733011-41-1 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5,10-dihydro-4,6-dihydroxy-8-methoxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.


O
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CMe2
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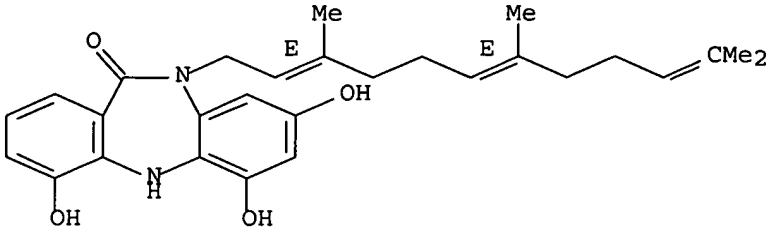
OH

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:634064 CAPLUS Full-text
DN 141:167757
TI Farnesyl dibenzodiazepinones, their production with microorganisms, and their use as antitumor, antibacterial, and antiinflammatory agents
IN Bachmann, Brian O.; Mcalpine, James B.; Zazopoulos, Emmanuel; Farnet, Chris M.; Piraee, Mahmood
PA Ecopia Biosciences Inc., Can.
SO PCT Int. Appl., 269 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004065591	A1	20040805	WO 2004-CA69	20040121
	W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GH, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ				
	CA 2466340	AA	20040809	CA 2004-2466340	20040121
PRAI	US 2003-441126P	P	20030121		
	US 2003-492997P	P	20030807		
	US 2003-518286P	P	20031110		
	WO 2004-CA69	W	20040121		

OS MARPAT 141:167757
AB This invention relates to a novel farnesylated dibenzodiazepinone, named ECO-04601, its pharmaceutically acceptable salts and derivs., and to methods for obtaining such compds. One method of obtaining the ECO-04601 compound is by cultivation of a novel strain of Micromonospora sp., 046-ECO11; another method involves expression of biosynthetic pathway genes in transformed host cells. The present invention further relates to Micromonospora sp. strain 046-ECO11, to the use of ECO-04601 and its pharmaceutically acceptable salts and derivs. as pharmaceuticals, in particular to their use as inhibitors of cancer cell growth, bacterial cell growth, mammalian lipoxygenase, and to pharmaceutical compns. comprising ECO-04601 or a pharmaceutically acceptable salt or derivative thereof. Finally, the invention relates to novel polynucleotide sequences and their encoded proteins, which are involved in the biosynthesis of ECO-04601.
IT **733035-26-2P**, ECO 04601
RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)(farnesyl dibenzodiazepinones, their production with microorganisms, and their use as antitumor, antibacterial, and antiinflammatory agents)
RN 733035-26-2 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5,10-dihydro-4,6,8-trihydroxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

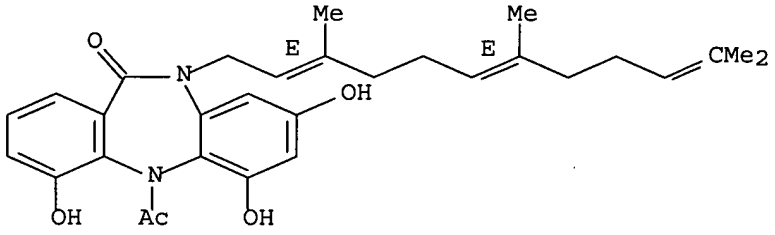


IT **733011-10-4P 733011-11-5P 733011-12-6P**
733011-32-0P 733011-33-1P 733011-39-7P
733011-41-1P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(farnesyl dibenzodiazepinones, their production with microorganisms, and their use as antitumor, antibacterial, and antiinflammatory agents)

RN 733011-10-4 CAPLUS

CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-acetyl-5,10-dihydro-4,6,8-trihydroxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

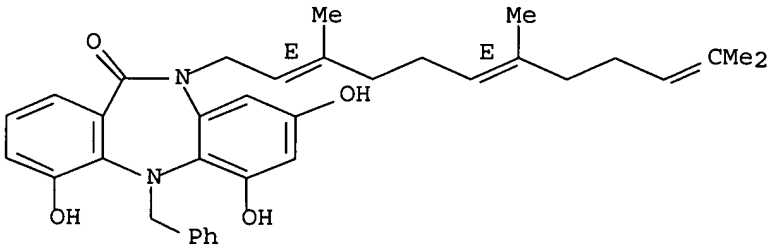
Double bond geometry as shown.



RN 733011-11-5 CAPLUS

CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5,10-dihydro-4,6,8-trihydroxy-5-(phenylmethyl)-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

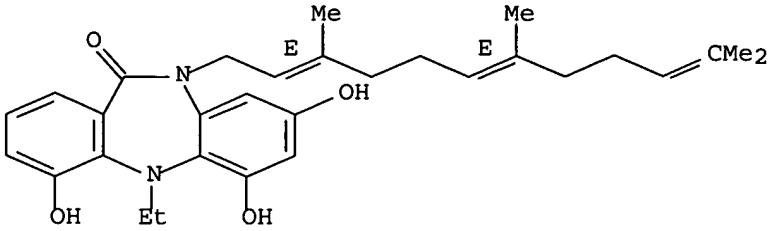
Double bond geometry as shown.



RN 733011-12-6 CAPLUS

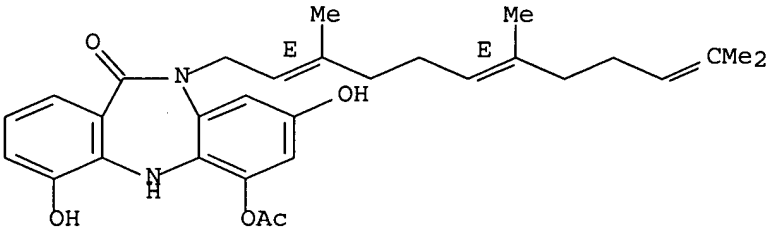
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5-ethyl-5,10-dihydro-4,6,8-trihydroxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



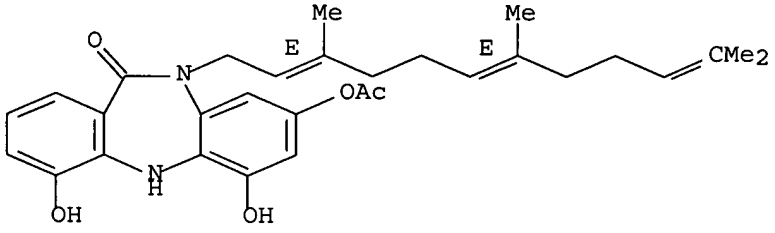
RN 733011-32-0 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 6-(acetyloxy)-5,10-dihydro-4,8-dihydroxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



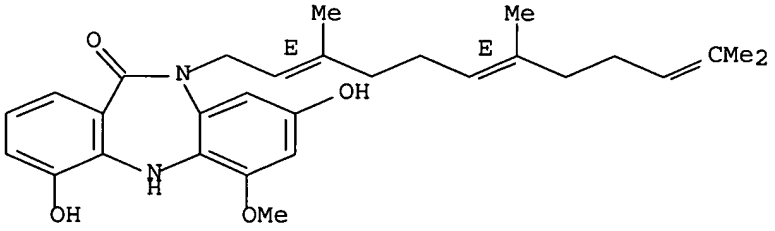
RN 733011-33-1 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 8-(acetyloxy)-5,10-dihydro-4,6-dihydroxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



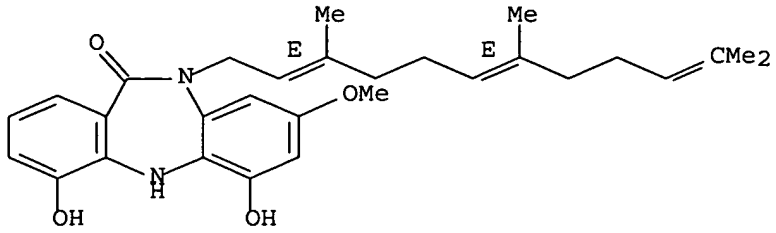
RN 733011-39-7 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5,10-dihydro-4,8-dihydroxy-6-methoxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



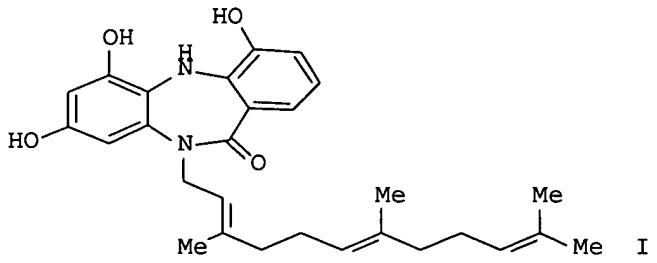
RN 733011-41-1 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5,10-dihydro-4,6-dihydroxy-8-methoxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:462918 CAPLUS Full-text
DN 141:170547
TI Diazepinomicin, a new antimicrobial alkaloid from a marine Micromonospora sp.
AU Charan, Romila D.; Schlingmann, Gerhard; Janso, Jeffrey; Bernan, Valerie; Feng, Xidong; Carter, Guy T.
CS Chemical and Screening Sciences, Wyeth Research, Pearl River, NY, 10965, USA
SO Journal of Natural Products (2004), 67(8), 1431-1433
CODEN: JNPRDF; ISSN: 0163-3864
PB American Chemical Society
DT Journal
LA English
GI

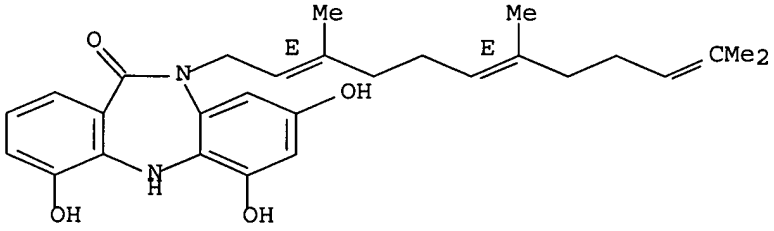


I

AB The structure of a new dibenzodiazepine alkaloid, diazepinomicin (I), isolated from the culture of a marine actinomycete of the genus Micromonospora, was characterized using spectroscopic methods. Diazepinomicin represents a unique mol. class composed of a dibenzodiazepine core linked to a farnesyl side chain.

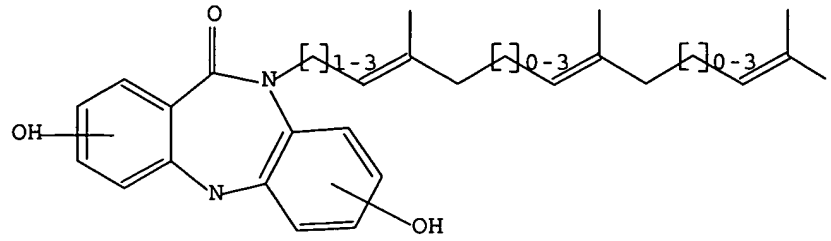
IT **733035-26-2P**, Diazepinomicin
RL: BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)
(diazepinomicin from marine Micromonospora)
RN 733035-26-2 CAPLUS
CN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 5,10-dihydro-4,6,8-trihydroxy-10-[(2E,6E)-3,7,11-trimethyl-2,6,10-dodecatrienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l2; d his; log y
L2 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.
L2 QUE ABB=ON PLU=ON L1

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DEL HIS Y
L1 STRUCTURE UPLOADED
L2 QUE L1
L3 1 S L2
L4 8 S L2 FUL

FILE 'CAPLUS' ENTERED AT 14:40:31 ON 22 SEP 2005
L5 3 S L4

FILE 'BEILSTEIN' ENTERED AT 14:41:00 ON 22 SEP 2005
L6 0 S L2
L7 0 S L2 FUL

FILE 'MARPAT' ENTERED AT 14:41:20 ON 22 SEP 2005

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.43	177.73

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.19

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